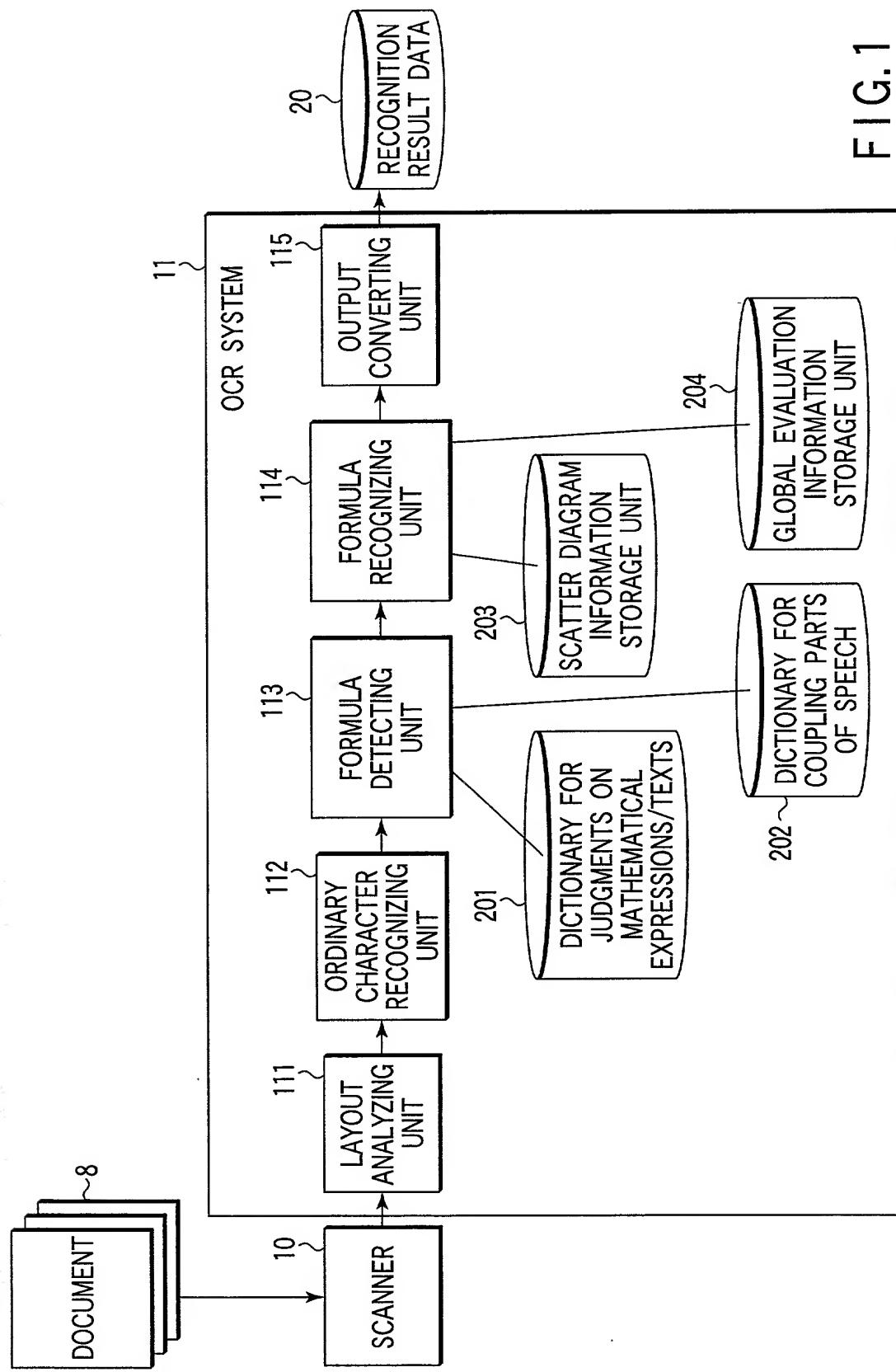


F I G. 1



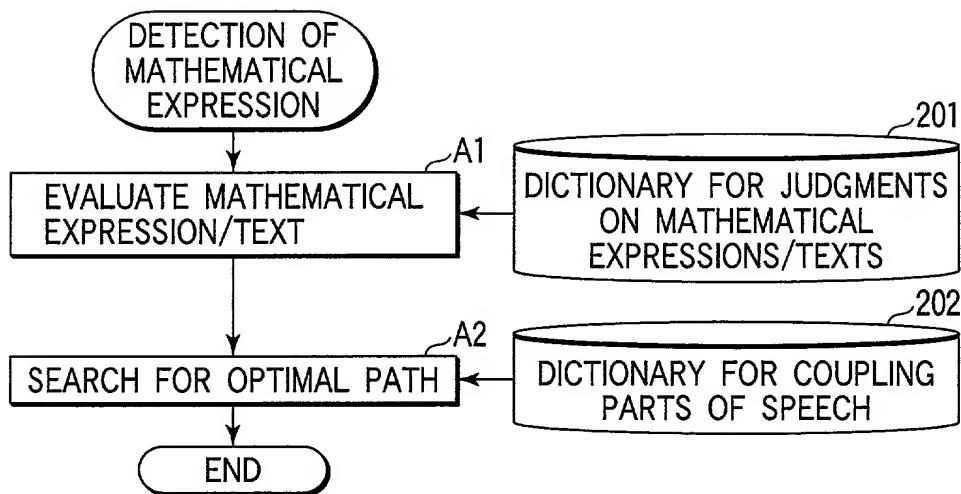


FIG. 2

Original Image	with $f(X)=X$, where U is a																									
Recognized Result	with $f(, \backslash)=, \backslash$ where U is a																									
Evaluation	<table border="0"> <tr> <td>Math</td> <td>0</td> <td>90</td> <td>100</td> <td>100</td> <td>0</td> <td>90</td> <td>70</td> <td>90</td> </tr> <tr> <td>Text</td> <td>100</td> <td>40</td> <td>20</td> <td>20</td> <td>100</td> <td>40</td> <td>70</td> <td>90</td> </tr> </table>								Math	0	90	100	100	0	90	70	90	Text	100	40	20	20	100	40	70	90
Math	0	90	100	100	0	90	70	90																		
Text	100	40	20	20	100	40	70	90																		

FIG. 3

NO.	WORD	PART OF SPEECH	MATH	TEXT
1.	with	PP	0	100
2.	where	PN	0	100
3.	is	V	70	70
4.	a	ART	90	90
5.	.*[` a-z].*	N	100	70
6.	.*[` a-z].*[` a-z].*	N	100	40
7.	.*[` a-z].*[` a-z].*[` a-z].*	N	100	20
8.	[a-z]*	N	90	40
9.	.*	N	100	5
:	:	:	:	:

DICTIONARY FOR JUDGMENTS ON MATHEMATICAL EXPRESSIONS/TEXTS

FIG.4

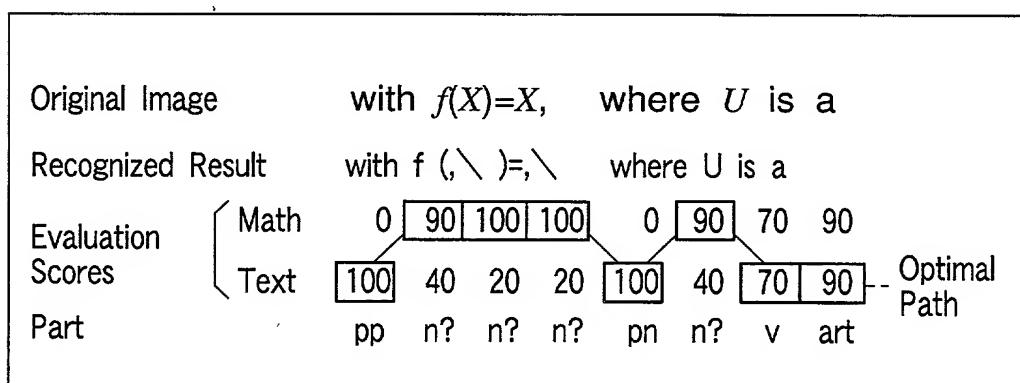
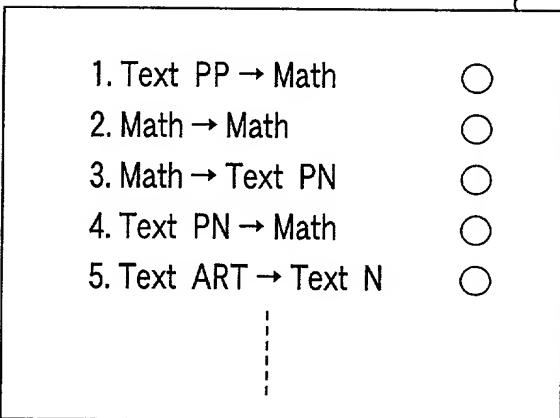


FIG.5

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DICTIONARY FOR COUPLING PARTS OF SPEECH

FIG. 6

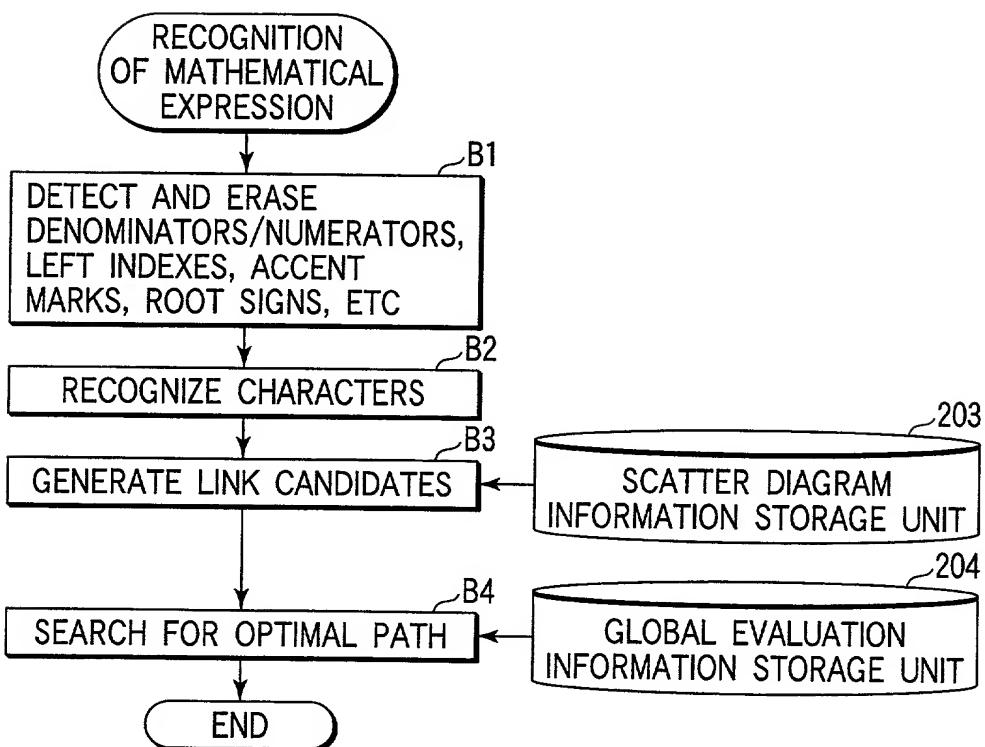


FIG. 7

$$\lim_{x \rightarrow \infty} \int_0^5 \frac{cx^2y^3}{3a} x dx$$

FIG. 8

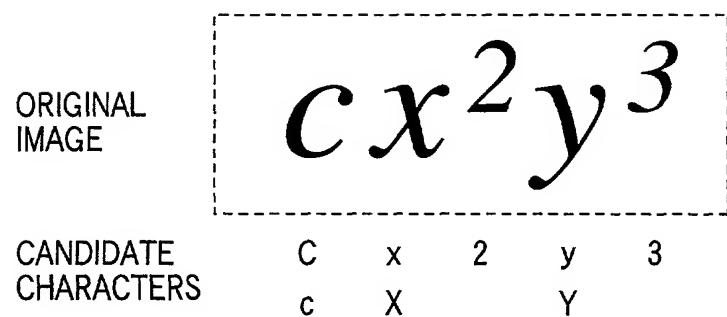


FIG. 9

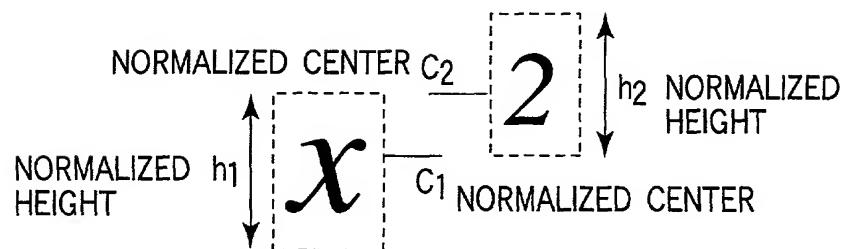


FIG. 10

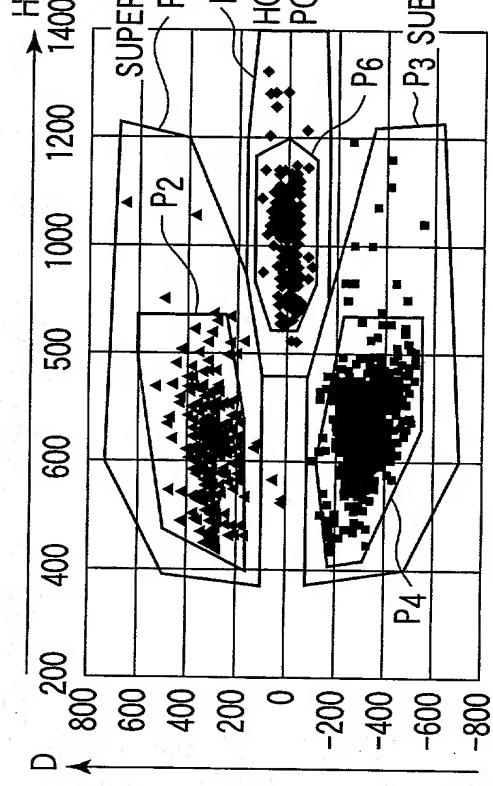


FIG. 11A
ALPHABET TYPE - ALPHABET TYPE

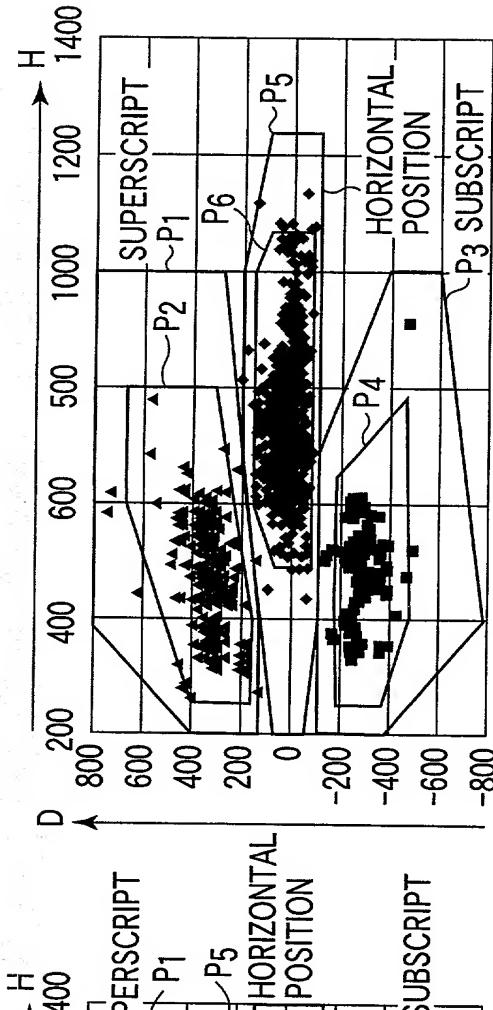


FIG. 11B
ALPHABET TYPE - OPERATOR

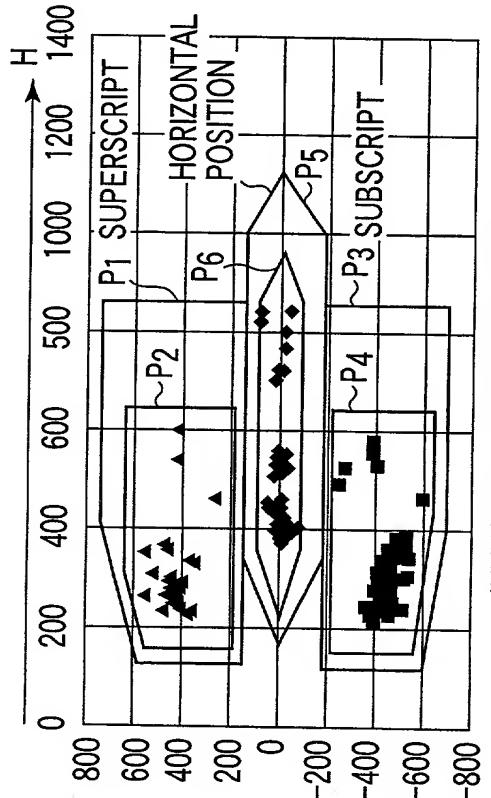


FIG. 11C
INTEGRAL - ALPHABET TYPE

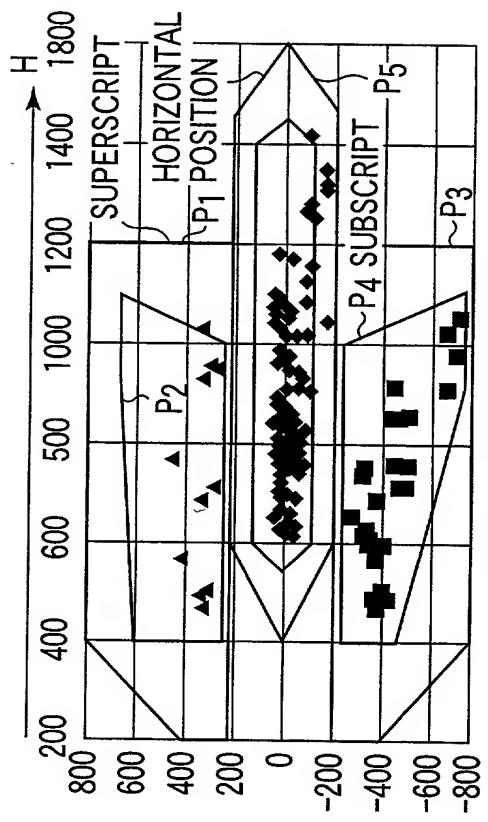


FIG. 11D
Σ TYPE - ALPHABET TYPE

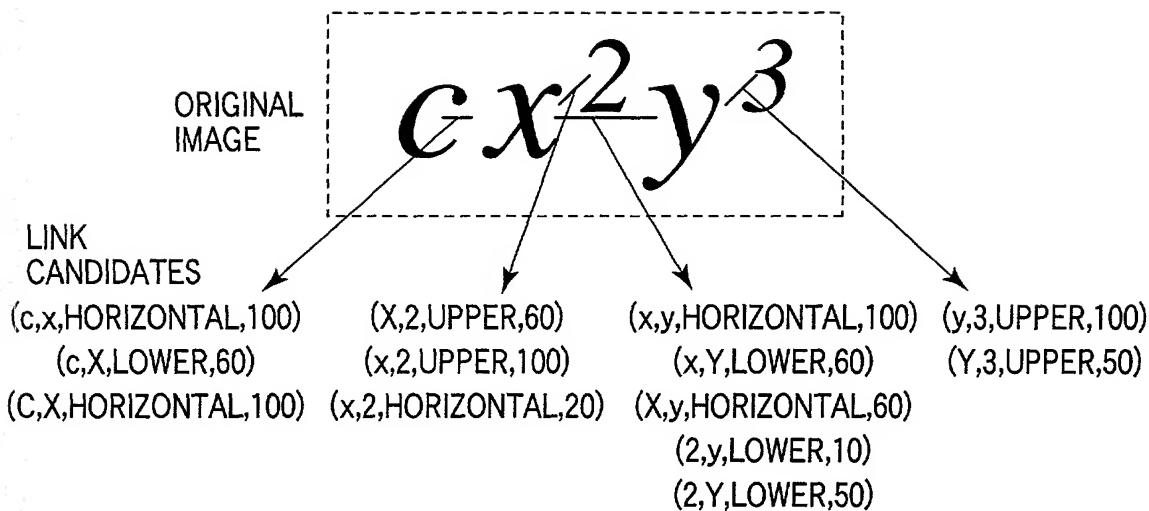


FIG. 12

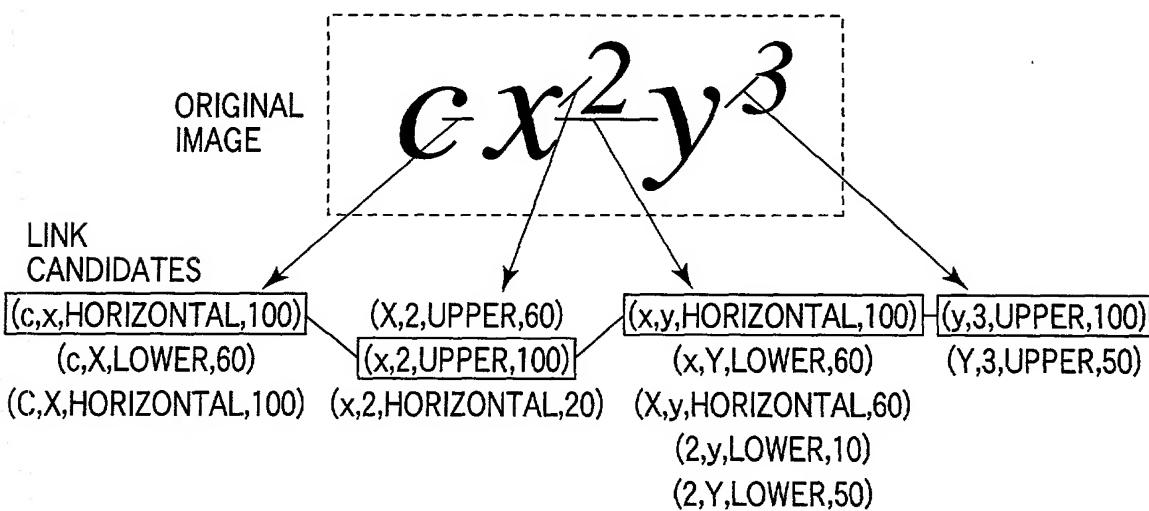


FIG. 13

$$a^2+b \rightarrow a^{2+b}$$

"b" FOLLOWING "2" IS MISJUDGED TO BE CONTAINED IN THE INDEX REGION OF "2" BECAUSE "+" IS MISJUDGED TO BE AN INDEX OF "2". THE CHARACTER SIZE OF "b" NEEDS TO BE MADE LARGER THAN "2" AND THE GLOBAL EVALUATION NEEDS TO BE REDUCED.

FIG. 14A

$$Ax+By \rightarrow A_{x+By}$$

"x" IS MISJUDGED TO BE CAPITAL LETTER "X" AND "B" LOCATED ON THE BASE LINE WITH A IS MISJUDGED TO BE IN THE INDEX REGION. THE GLOBAL EVALUATION NEEDS TO BE REDUCED.

FIG. 14B

$$Ax+Cx \rightarrow A_{x+Cx}$$

"C" IS MISJUDGED TO BE SMALLER LETTER "c" AND CONSEQUENTLY THE SIZE OF NORMALIZATION OF "c" BECOMES LARGER THAT THE SIZE OF NORMALIZATION OF "A". THE GLOBAL EVALUATION NEEDS TO BE LOWERED.

FIG. 14C